DOCUMENT RESUME

ED 452 061 SE 064 661

TITLE	CPU--Constructing Physics Understanding[TM]. [CD-ROM].
PUB DATE	2000-00-00
NOTE	0p.; Includes Installation Guide.
AVAILABLE FROM	The Learning Team, 84 Business Park Drive, Armonk, NY 10504 (5 user license, $349; 30 user license, $999; curriculum units: Site license, $499). Tel: 800-793-TEAM (Toll Free); Fax: 914-273-2227.
PUB TYPE	Guides - Classroom - Teacher (052) -- Computer Programs (101)
EDRS PRICE	Document Not Available from EDRS.
DESCRIPTORS	Acoustics; Computer Simulation; *Curriculum Development; Electricity; Force; Laboratory Experiments; Light; Matter; Motion; Optical Data Disks; Physical Sciences; *Physics; *Science Activities; Science Instruction; Secondary Education
IDENTIFIERS	*Wave Processes

ABSTRACT

This CD-ROM consists of simulation software that allows students to conduct countless experiments using 20 Java simulators and curriculum units that explore light and color, forces and motion, sound and waves, static electricity and magnetism, current electricity, the nature of matter, and a unit on underpinnings. Setups can be designed by the user to reinforce any physics curriculum, particularly those that emphasize conceptual understanding. Students can use the simulators to explore physics ideas for themselves. The curriculum units provide the user with hundreds of activities that utilize the physics simulators. Each activity is designed to help students develop valid and robust ideas in physics and physical science. Units are comprised of carefully sequenced sets of laboratory/discussion activities embedded in a student-oriented pedagogy. Students use pre-set simulators that complement and extend the lab experiments. Teacher guides and the option to choose computer-based or paper and pencil versions are included. Tutorials show how to design and structure the program for the teacher and the student's specific needs. Students can record their progress using electronic notes and can label, save, and print their experiments. (SAH)

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